BRAGG LIGHT DATA Jun 2009

Date	BMT	SR	SS	EET	MR	MS	MAX ELEV. ANGLE OVER TIME (ZULU) - in degrees																																		
	LCL	LCL	LCL	LCL	LCL	LCL	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130	2200	2230	2300	2330	0030	0100	0130	0200	0230	0300	0330	0400	0430	0500	0530	0600	0630	0700	0730	0800	0830	0900	(0000,2359)
1-Jun	0457	0602	2026	2131	1449	0206	13.0	18	24	29	34	38	42	45	47	48	48	46	44	41	37	33	23	17	12	6	0	-6	-12	-18	-24	-30	-36	-41	-47	-52	-56	-60	-63	-64	61
LUNAR ILLUMINATION % OVER TIME							68	68	69	69	69	69	69	70	70	70	70	70	71	71	71	71	72	72	72	72	72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2-Jun	0456	0602	2026	2132	1551	0233	13	18	24	29	34	38	42	45	47	48	48	46	44	41	37	33	23	17	12	6	0	-6	-12	-18	-24	-30	-36	-41	-47	-52	-56	-60	-63	-64	71
LUNAR ILLUMINATION % OVER TIME							68	68	69	69	69	69	69	70	70	70	70	70	71	71	71	71	72	72	72	72	72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3-Jun	0456	0602	2027	2133	1654	0302	13	18	24	29	34	38	42	45	47	48	48	46	44	41	37	33	23	17	12	6	0	-6	-12	-18	-24	-30	-36	-41	-47	-52	-56	-60	-63	-64	80
LUNAR ILLUMINATION % OVER TIME							68	68	69	69	69	69	69	70	70	70	70	70	71	71	71	71	72	72	72	72	72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4-Jun	0455	0601	2027	2134	1756	0333	1	7	12	17	22	27	31	35	38	40	42	42	41	40	37	34	26	21	16	11	5	0	-6	-12	-18	-24	-30	-36	-42	-47	-53	-58	-63	-66	88
LUNAR ILLUMINATION % OVER TIME							77	78	78	78	78	78	79	79	79	79	79	79	80	80	80	80	80	81	81	81	81	81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5-Jun	0455	0601	2028	2134	1857	0408	1	7	12	17	22	27	31	35	38	40	42	42	41	40	37	34	26	21	16	11	5	0	-6	-12	-18	-24	-30	-36	-42	-47	-53	-58	-63	-66	93
LUNAR ILLUMINATION % OVER TIME							77	78	78	78	78	78	79	79	79	79	79	79	80	80	80	80	80	81	81	81	81	81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6-Jun	0455	0601	2029	2135	1956	0448	1	7	12	17	22	27	31	35	38	40	42	42	41	40	37	34	26	21	16	11	5	0	-6	-12	-18	-24	-30	-36	-42	-47	-53	-58	-63	-66	97
LUNAR ILLUMINATION % OVER TIME							77	78	78	78	78	78	79	79	79	79	79	79	80	80	80	80	80	81	81	81	81	81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7-Jun	0454	0601	2029	2135	2050	0533	-11	-5	1	6	11	16	21	25	29	32	34	36	37	37	36	34	28	24	20	15	11	5	0	-6	-12	-17	-23	-29	-35	-41	-47	-53	-58	-63	0
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	86	86	86	86	86	86	87	87	87	87	87	87	87	88	88	88	88	88	88	89	89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8-Jun	0454	0601	2030	2136	2139	0624	-11	-5	1	6	11	16	21	25	29	32	34	36	37	37	36	34	28	24	20	15	11	5	0	-6	-12	-17	-23	-29	-35	-41	-47	-53	-58	-63	0
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	86	86	86	86	86	86	87	87	87	87	87	87	87	88	88	88	88	88	88	89	89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9-Jun	0454	0600	2030	2137	2222	0719	-11	-5	1	6	11	16	21	25	29	32	34	36	37	37	36	34	28	24	20	15	11	5	0	-6	-12	-17	-23	-29	-35	-41	-47	-53	-58	-63	98
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	86	86	86	86	86	86	87	87	87	87	87	87	87	88	88	88	88	88	88	89	89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10-Jun	0454	0600	2031	2137	2258	0816	-22	-17	-11	-5	0	5	10	15	19	23	26	29	31	32	33	32	29	27	23	20	15	11	6	1	-5	-10	-16	-22	-27	-33	-39	-45	-51	-57	95
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	92	92	92	93	93	93	93	93	93	93	93	93	94	94	94	94	94	94	94	94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11-Jun	0454	0600	2031	2138	2330	0914	-22	-17	-11	-5	0	5	10	15	19	23	26	29	31	32	33	32	29	27	23	20	15	11	6	1	-5	-10	-16	-22	-27	-33	-39	-45	-51	-57	90
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	92	92	92	93	93	93	93	93	93	93	93	93	94	94	94	94	94	94	94	94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12-Jun	0454	0600	2031	2138	2359	1012	-22	-17	-11	-5	0	5	10	15	19	23	26	29	31	32	33	32	29	27	23	20	15	11	6	1	-5	-10	-16	-22	-27	-33	-39	-45	-51	-57	83
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	92	92	92	93	93	93	93	93	93	93	93	93	94	94	94	94	94	94	94	94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
13-Jun	0454	0600	2032	2139	No E\	1110	-33	-28	-22	-16	-11	-6	0	5	9	14	18	21	24	27	29	30	29	28	26	23	20	16	12	7	2	-3	-8	-14	-19	-25	-31	-36	-42	-48	76
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	97	97	97	97	97	97	97	97	97	97	98	98	98	98	98	98	98	98	98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
14-Jun	0454	0600	2032	2139	0025	1208	-33	-28	-22	-16	-11	-6	0	5	9	14	18	21	24	27	29	30	29	28	26	23	20	16	12	7	2	-3	-8	-14	-19	-25	-31	-36	-42	-48	67
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	97	97	97	97	97	97	97	97	97	97	98	98	98	98	98	98	98	98	98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
15-Jun	0454	0600	2033	2139	0050	1306	-33	-28	-22	-16	-11	-6	0	5	9	14	18	21	24	27	29	30	29	28	26	23	20	16	12	7	2	-3	-8	-14	-19	-25	-31	-36	-42	-48	58
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	97	97	97	97	97	97	97	97	97	97	98	98	98	98	98	98	98	98	98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
16-Jun	0454	0601	2033	2140	0116	1406	-44	-38	-33	-27	-21	-16	-10	-5	0	5	9	14	17	21	23	26	28	28	27	26	23	21	17	13	9	5	0	-5	-11	-16	-22	-27	-33	-39	48
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17-Jun	0454	0601	2033	2140	0143	1509	-44	-38	-33	-27	-21	-16	-10	-5	0	5	9	14	17	21	23	26	28	28	27	26	23	21	17	13	9	5	0	-5	-11	-16	-22	-27	-33	-39	37
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18-Jun	0454	0601	2033	2140	0214	1615	-44	-38	-33	-27	-21	-16	-10	-5	0	5	9	14	17	21	23	26	28	28	27	26	23	21	17	13	9	5	0	-5	-11	-16	-22	-27	-33	-39	27
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
19-Jun	0454	0601	2034	2141	0249	1726	-55	-49	-43	-37	-31	-26	-20	-15	-9	-4	1	6	10	14	18	21	26	27	27	27	26	25	22	19	16	12	8	3	-2	-7	-12	-18	-23	-29	18
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	
20-Jun	0454	0601	2034	2141	0333	1838	-55	-49	-43	-37	-31	-26	-20	-15	-9	-4	1	6	10	14	18	21	26	27	27	27	26	25	22	19	16	12	8	3	-2	-7	-12	-18	-23	-29	10
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	
21-Jun	0454	0601	2034	2141	0426	1947	-55	-49	-43	-37	-31	-26	-20	-15	-9	-4	1	6	10	14	18	21	26	27	27	27	26	25	22	19	16	12	8	3	-2	-7	-12	-18	-23	-29	4
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	N/A	N/A	N/A	N/A	N/A	N/A	
22-Jun	0455	0602	2034	2141	0530	2050	-64	-59	-53	-47	-41	-35	-30	-24	-18	-13	-7	-2	3	7	12	16	22	25	27	28	28	28	27	25	22	19	16	12	7	3	-3	-8	-13	-19	1
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	97	97	97	N/A	N/A	N/A	N/A	
23-Jun	0455	0602	2034	2142	0642	2144	-64	-59	-53	-47	-41	-35	-30	-24	-18	-13	-7	-2	3	7	12	16	22	25	27	28	28	28	27	25	22	19	16	12	7	3	-3	-8	-13	-19	0
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	97	97	97	N/A	N/A	N/A	N/A	
24-Jun	0455	0602	2035	2142	0759	2229	-64	-59	-53	-47	-41	-35	-30	-24	-18	-13	-7	-2	3	7	12	16	22	25	27	28	28	28	27	25	22	19	16	12	7	3	-3	-8	-13	-19	3
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	97	97	97	N/A	N/A	N/A	N/A	
25-Jun	0455	0602	2035	2142	0914	2306	-64	-59	-53	-47	-41	-35	-30	-24	-18	-13	-7	-2	3	7	12	16	22	25	27	28	28	28	27	25	22	19	16	12	7	3	-3	-8	-13	-19	8
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	97	97	97	N/A	N/A	N/A	N/A	
26-Jun	0456	0603	2035	2142	1026	2338	-73	-67	-62	-56	-50	-44	-38	-33	-27	-21	-15	-10	-5	1	6	10	19	22	25	28	29	30	30	30	28	26	23	20	16	12	7	2	-3	-9	16
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	95	95	95	95	95	95	94	94	94	94	94	94	94	94	94	94	94	93	93	N/A	N/A	
27-Jun	0456	0603	2035	2142	1135	No E\	-73	-67	-62	-56	-50	-44	-38	-33	-27	-21	-15	-10	-5	1	6	10	19	22	25	28	29	30	30	30	28	26	23	20	16	12	7	2	-3	-9	25
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	95	95	95	95	95	95	94	94	94	94	94	94	94	94	94	94	94	93	93	N/A	N/A	
28-Jun	0457	0603	2035	2142	1241	0008	-73	-67	-62	-56	-50	-44	-38	-33	-27	-21	-15	-10	-5	1	6	10	19	22	25	28	29	30	30	30	28	26	23	20	16	12	7	2	-3	-9	36
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	95	95	95	95	95	95	94	94	94	94	94	94	94	94	94	94	94	93	93	N/A	N/A	
29-Jun	0457	0604	2035	2142	1344	0036	-76	-73	-69	-64	-58	-52	-47	-41	-35	-29	-23	-17	-12	-6	0	5	19	22	25	28	29	30	30	30	28	26	23	20	16	12	7	2	-3	-9	47
LUNAR ILLUMINATION % OVER TIME							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90	90	95	95	95	94	94	94	94	94	94	94	94	94	94	94	93	93	N/A	N/A	
30-Jun	0458	0604	2035	2142	1447	0105	-76	-73	-69	-64	-58	-52	-47	-41	-35	-29	-23	-17	-12	-6	0	5	19	22	25	28	29	30	30	30	28	26	23	20	16	12	7	2	-3	-9	57
							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90	90	95	95	95	94	94	94	94	94	94	94	94	94	94	94	93	93	N/A	N/A	
1-Jul	0458	0605	2035	2141	1550	0135	-76	-73	-69	-64	-58	-52	-47	-41	-35	-29	-23	-17	-12	-6	0	5	19	22	25	28	29	30	30	30	28	26	23	20	16	12	7	2	-3	-9	67
							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90	90	95	95	95	94	94	94	94	94	94	94	94	94	94	94	93	93	N/A	N/A	